

PE NUMBER: 0604708F

UNCLASSIFIED

PE TITLE: Civil, Fire, Environmental, Shelter

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604708F Civil, Fire, Environmental, Shelter						
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	2,510	2,682	2,719	2,770	2,806	2,854	2,914	2,974	TBD	Continuing
2505 Aircraft Firefighting Suppression And Rescue	2,323	2,498	2,539	2,584	2,618	2,663	2,719	2,776	TBD	Continuing
2674 Tactical Shelters	187	184	180	186	188	191	195	198	TBD	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(U) **A. Mission Description**
 This program funds the development, testing and evaluation of materials, equipment and procedures in the following areas:

(1) Aircraft Fire Fighting, Suppression and Rescue and Civil Engineer (CE) Readiness, and (2) Tactical Shelters. Overall CE readiness is supported by multimedia training systems for Fire Fighting, CE readiness (Disaster Preparedness, Chem/Bio) and Force Protection (Explosive Ordnance Disposal (EOD)) by developing interactive training scenarios which simulate hazardous situations, allows both training and testing of response capabilities, and complements field training while reducing time, cost and direct exposure to hazards. Develops new concepts and technology applications for fire fighting, suppression and rescue to provide rapidly deployable capabilities to support bare base, contingency operating areas or main operating bases, and to reduce fire risks to personnel and resources.

(2) Tactical Shelters is the USAF portion of a tri-service effort to develop standardized, low maintenance, highly survivable shelters and shelter accessories that are easily mobilized and compatible with air, sea and land transport systems. These products will effectively support high mobility aircraft support, command and control, communications, medical, and data processing units for the tactical and strategic forces. These shelters also optimize the latest enhancements of force protection technology.

(U) **B. Budget Activity Justification:**
 This program is in budget activity five, Engineering and Manufacturing Development, because it takes emerging technologies and concepts and develops them for Air Force use.

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE
February 1999

BUDGET ACTIVITY

5 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604708F Civil, Fire, Environmental, Shelter(U) C. Program Change Summary (\$ in Thousands)

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget	2,526	2,715	2,768	2,824	Continuing
(U) Appropriated Value	2,682	2,715			
(U) Adjustments to Appropriated Value					
a. Cong/General Reductions	-120	-33			
b. SBIR	-52				
c. Omnibus or Other Above Threshold Reprogram					
d. Below Threshold Reprogramming					
(U) Adjustments to Budget Years Since FY 1999 PB			-49	-54	
(U) Current Budget Submit/FY2000 PB	2,510	2,682	2,719	2,770	Continuing

(U) Significant Program Changes:

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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604708F Civil, Fire, Environmental, Shelter				PROJECT 2505		
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
2505 Aircraft Firefighting Suppression And Rescue	2,323	2,498	2,539	2,584	2,618	2,663	2,719	2,776	TBD	Continuing
<p>(U) A. <u>Mission Description</u></p> <p>Develops improved civil engineering, fire fighting suppression and rescue equipment, materials, and methods to increase fire protection, readiness, force protection, mobility, and disaster preparedness effectiveness and training.</p> <p>(U) <u>FY 1998 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> – (U) \$1,938 Continued courseware development of CE/MTS (Civil Engineer/Multimedia Training Systems). – (U) \$ 137 Continued commercial technology exploitation. – (U) \$ 248 Other technical support. – (U) \$2,323 Total <p>(U) <u>FY 1999 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> – (U) \$2,099 Continued courseware development of CE/MTS. – (U) \$ 144 Continued commercial technology exploitation. – (U) \$ 255 Other technical support. – (U) \$2,498 Total <p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> – (U) \$2,224 Continued courseware development of CE/MTS. – (U) \$ 140 Continued commercial technology exploitation. – (U) \$ 175 Other technical support. – (U) \$2,539 Total 										
Project 2505		Page 3 of 11 Pages				Exhibit R-2A (PE 0604708F)				

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 1999
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604708F Civil, Fire, Environmental, Shelter	PROJECT 2505

(U) FY 2001 (\$ in Thousands):

- (U) \$2,295 Continued courseware development of CE/MTS (Civil Engineer/Multimedia Training Systems).
- (U) \$ 150 Continued commercial technology exploitation.
- (U) \$ 139 Other technical support.
- (U) \$2,584 Total

(U) **B. Project Change Summary - Description of Significant Changes:** N/A

(U) **C. Other Program Funding Summary (\$ in Thousands)** N/A

(U) **D. Acquisition Strategy:** Courseware materials will continue to be developed, tested, modified and readied for production and procurement by field units.

Project 2505

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 1999				
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604708F Civil, Fire, Environmental, Shelter				PROJECT 2505		
(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u>											
					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U) Contracts					1,357	1,627	1,664	1,680			
(U) A&AS Support					406	437	460	515			
(U) Other Government Agencies					277	164	190	195			
(U) Materials/Equipment					35	15	50	55			
(U) Other Technical Support					248	255	175	139			
(U) Total					2,323	2,498	2,539	2,584			
(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
Performing Organizations:											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Product Development Organizations</u>											
Multimedia	Mult	Cont	14,500	14,500	498	1,938	2,099	2,224	2,295	TBD	Continues
Training Sys											
Fire Commercial	Mult	Cont	1,500	1,500	250	44	40	30	35	TBD	Continues
Technology											
Exploitation											
Subtotal			16,000	16,000	2,598	1,982	2,139	2,254	2,330	TBD	Continues
<u>Support and Management Organizations</u>											
Various			1,950	1,950	442	248	255	175	139	TBD	Continues
<u>Test and Evaluation Organizations</u>											
Various			750	750	70	93	104	110	115	TBD	Continues
Project 2505					Page 6 of 11 Pages				Exhibit R-3 (PE 0604708F)		

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 1999																																																														
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604708F Civil, Fire, Environmental, Shelter			PROJECT 2505																																																													
<p>Government Furnished Property: None</p> <p>(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u></p> <p>Performing Organizations:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Contractor or Government Performing <u>Activity</u></th> <th style="text-align: left;">Contract Method/Type or Funding <u>Vehicle</u></th> <th style="text-align: left;">Award or Obligation <u>Date</u></th> <th style="text-align: left;">Performing Activity <u>EAC</u></th> <th style="text-align: left;">Project Office <u>EAC</u></th> <th style="text-align: right;">Total Prior to <u>FY 1998</u></th> <th style="text-align: right;">Budget <u>FY 1998</u></th> <th style="text-align: right;">Budget <u>FY 1999</u></th> <th style="text-align: right;">Budget <u>FY 2000</u></th> <th style="text-align: right;">Budget <u>FY 2001</u></th> <th style="text-align: right;">Budget to <u>Complete</u></th> <th style="text-align: right;">Total <u>Program</u></th> </tr> </thead> <tbody> <tr> <td colspan="5">Subtotal Product Development</td> <td style="text-align: right;">2,598</td> <td style="text-align: right;">1,982</td> <td style="text-align: right;">2,139</td> <td style="text-align: right;">2,254</td> <td style="text-align: right;">2,330</td> <td style="text-align: right;">TBD</td> <td style="text-align: right;">Continues</td> </tr> <tr> <td colspan="5">Subtotal Support and Management</td> <td style="text-align: right;">442</td> <td style="text-align: right;">248</td> <td style="text-align: right;">255</td> <td style="text-align: right;">175</td> <td style="text-align: right;">139</td> <td style="text-align: right;">TBD</td> <td style="text-align: right;">Continues</td> </tr> <tr> <td colspan="5">Subtotal Test and Evaluation</td> <td style="text-align: right;">70</td> <td style="text-align: right;">93</td> <td style="text-align: right;">104</td> <td style="text-align: right;">110</td> <td style="text-align: right;">115</td> <td style="text-align: right;">TBD</td> <td style="text-align: right;">Continues</td> </tr> <tr> <td colspan="5">Total Project</td> <td style="text-align: right;">3,110</td> <td style="text-align: right;">2,323</td> <td style="text-align: right;">2,498</td> <td style="text-align: right;">2,539</td> <td style="text-align: right;">2,584</td> <td style="text-align: right;">TBD</td> <td style="text-align: right;">Continues</td> </tr> </tbody> </table>										Contractor or Government Performing <u>Activity</u>	Contract Method/Type or Funding <u>Vehicle</u>	Award or Obligation <u>Date</u>	Performing Activity <u>EAC</u>	Project Office <u>EAC</u>	Total Prior to <u>FY 1998</u>	Budget <u>FY 1998</u>	Budget <u>FY 1999</u>	Budget <u>FY 2000</u>	Budget <u>FY 2001</u>	Budget to <u>Complete</u>	Total <u>Program</u>	Subtotal Product Development					2,598	1,982	2,139	2,254	2,330	TBD	Continues	Subtotal Support and Management					442	248	255	175	139	TBD	Continues	Subtotal Test and Evaluation					70	93	104	110	115	TBD	Continues	Total Project					3,110	2,323	2,498	2,539	2,584	TBD	Continues
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604708F Civil, Fire, Environmental, Shelter				PROJECT 2674		
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
2674 Tactical Shelters	187	184	180	186	188	191	195	198	TBD	Continuing
<p>(U) A. <u>Mission Description:</u> Provides reliable, cost effective tactical shelters required to ensure the success of Air Force missions, provides Air Force membership in the DOD Tactical Shelter Program, and provides technology insertion for shelter development.</p> <p>(U) <u>FY 1998 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> – (U) \$ 75 Continue research, development and acquisition of the Modular Extendible Ridged Wall Shelter (MERWS) – (U) \$102 Establish capability to evaluate shelter design and performance and perform system integration analysis – (U) \$ 10 Provide direct feedback and ensure Air Force requirements identified to Joint Committee for Tactical Shelters (JOCOTAS) and American Society of Testing Materials (ASTM) – (U) \$187 Total <p>(U) <u>FY 1999 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> – (U) \$ 72 Continue research, development and acquisition of the Modular Extendible Ridged Wall Shelter (MERWS) – (U) \$102 Establish capability to evaluate shelter design and performance and perform system integration analysis – (U) \$ 10 Provide direct feedback and ensure Air Force requirements identified to JOCOTAS and ASTM – (U) \$184 Total <p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> – (U) \$ 66 Continue research, development and acquisition of composite tactical shelter. – (U) \$ 102 Establish capability to evaluate shelter design and performance and perform shelter integration analysis. – (U) \$ 12 Provide direct feedback and ensure Air Force requirements are identified to JOCOTAS and ASTM. – (U) \$ 180 Total 										
<div style="display: flex; justify-content: space-between;"> Project 2674 Page 8 of 11 Pages Exhibit R-2A (PE 0604708F) </div>										

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 1999
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604708F Civil, Fire, Environmental, Shelter	PROJECT 2674
<p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> – (U) \$ 73 Continue research, development and acquisition of composite tactical shelter. – (U) \$ 102 Establish capability to evaluate shelter design and performance and perform shelter integration analysis. – (U) \$ 11 Provide direct feedback and ensure Air Force requirements are identified to JOCOTAS and ASTM. – (U) \$ 186 Total <p>(U) B. <u>Project Change Summary - Description of Significant Changes:</u> N/A</p> <p>(U) C. <u>Other Program Funding Summary (\$ in Thousands)</u> N/A</p> <p>(U) D. <u>Acquisition Strategy:</u> Tactical shelters development will continue to support Initial Deployable Kitchen (IDK) Program</p> <p>(U) E. <u>Schedule Profile</u> N/A</p>		
<div style="display: flex; justify-content: space-between;"> Project 2674 Page 9 of 11 Pages Exhibit R-2A (PE 0604708F) </div>		

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 1999	
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT	
5 - Engineering and Manufacturing Development					0604708F Civil, Fire, Environmental, Shelter					2674	
(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u>											
					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U) MERWS (modular extendible ridged wall shelter) program					75	72					
(U) Composite Shelter Development					0	0	66	73			
(U) Shelter design, performance and analysis					102	102	102	102			
(U) JOCOTAS program					10	10	12	11			
(U) Total					187	184	180	186			
(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
Performing Organizations:											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Product Development Organizations</u>											
MERWS Pgm	Multiple	Multiple			*	75	72	0	0	TBD	Continues
Composite Shelter Dev	Multiple	Multiple			*	0	0	66	73	TBD	Continues
Shelter design, performance and analysis	Multiple	Multiple			*	102	102	102	102	TBD	Continues
JOCOTAS Pgm	Multiple	Multiple			*	10	10	12	11	TBD	Continues
<u>Support and Management Organizations</u>											
N/A					*	0	0	0	0	N/A	
Project 2674					Page 10 of 11 Pages				Exhibit R-3 (PE 0604708F)		

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 1999	
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604708F Civil, Fire, Environmental, Shelter					PROJECT 2674	
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Test and Evaluation Organizations</u>					*	0	0	0	0	N/A	N/A
N/A											
(U) B. <u>Budget Acquisition History and Planning Information Continued (\$ in Thousands)</u>											
Government Furnished Property: None											
Item Description	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Delivery Date		Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
Subtotal Product Development					16,310	187	184	180	186	TBD	Continues
Subtotal Support and Management					0	0	0	0	0	TBD	Continues
Subtotal Test and Evaluation					0	0	0	0	0	TBD	Continues
Total Project					16,310	187	184	180	186	TBD	Continues
* = Prior year funding was not aggregated in these categories and therefore only Subtotal/Total can be shown for "Prior to FY1998."											
Project 2674											